

HEAVY DUTY RACKS



LOADMASTER
RACKS

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MAIN UNIT (STARTER UNIT)

The Main Unit is a complete independent rack structure consisting of:

- 2 Upright Frames (Total 4 Upright Columns)
- Load Beams
- Cross & Horizontal Bracing
- Shelf Panels (optional)

This unit is fully self-supported and forms the starting bay of the racking system.

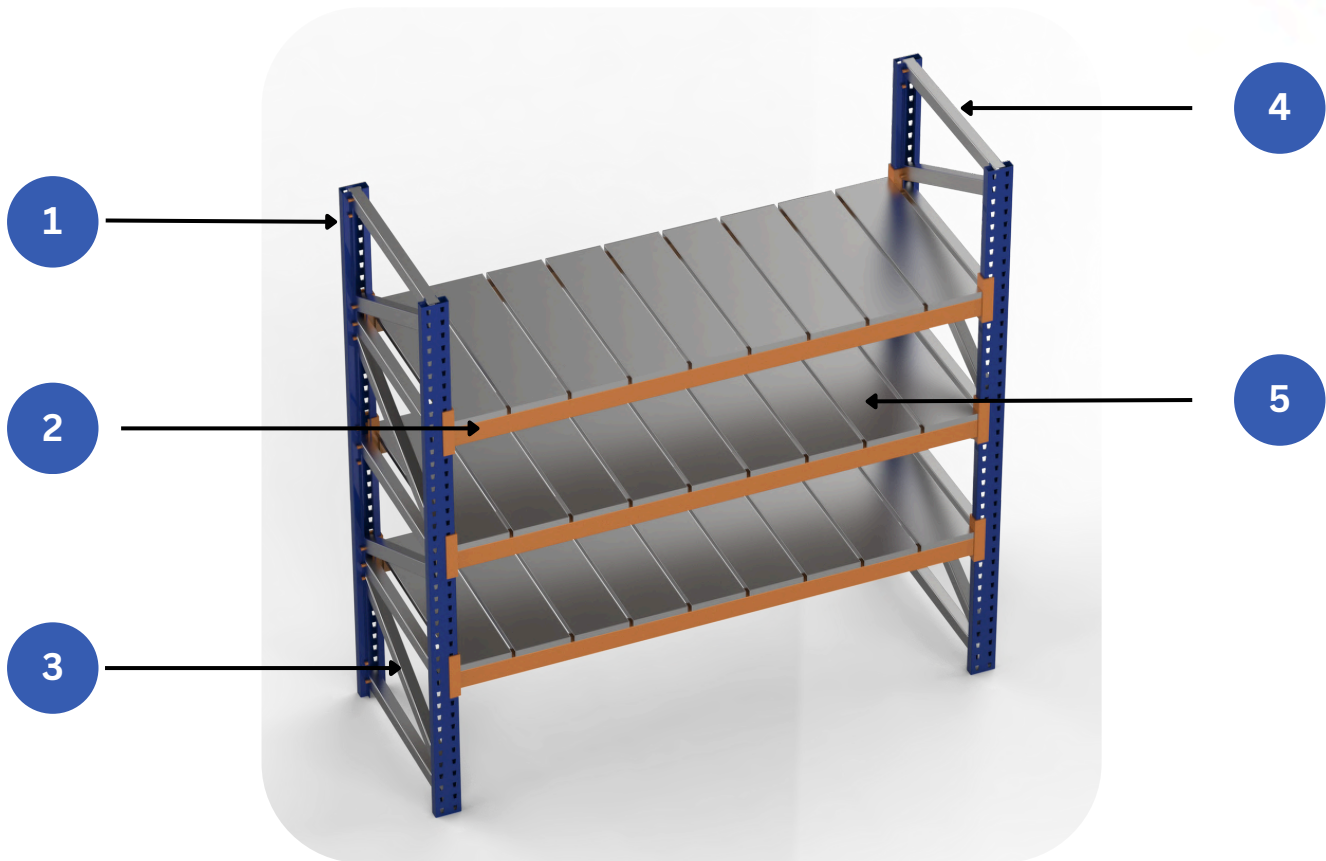
ADD-ON UNIT (EXTENSION UNIT)

The Add-On Unit is used to extend the racking system and is connected to the Main Unit. It consists of:

- 1 Upright Frame (Total 2 Upright Columns)
- Beams
- Bracing Members
- Shelf Panels (optional)

This unit shares one upright frame with the previous bay, making it economical and space-efficient.

STRUCTURAL COMPONENT OVERVIEW



1 . UPRIGHT (VERTICAL COLUMN)

Main load-bearing structure providing strength and stability.

2 . BEAM

Horizontal support connecting uprights to carry load.

3 . CROSS BRACING (DIAGONAL)

Provides rigidity and prevents lateral movement.

4 . HORIZONTAL BRACING

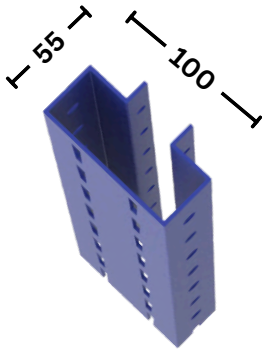
Maintains alignment and enhances structural stability.

5 . SHELF PANEL (DECKING PANEL)

Flat surface for storing materials with even load distribution.

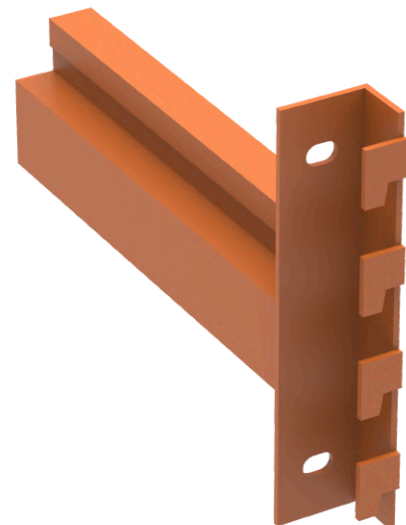
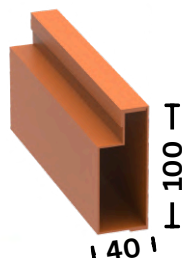
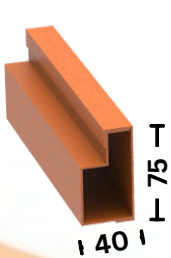
UPRIGHT (VERTICAL COLUMN)

- Type: Box Type Upright Frame
- Size: 100 × 55 mm (or as per design requirement)
- Material: Mild Steel (HRPO/HR)
- Thickness: 1.6 mm to 2 mm (as per load capacity)
- Hole Pitch: 50 mm adjustable
- Bracing: Provided with cross and horizontal bracing for stability
- Finish: Powder Coated



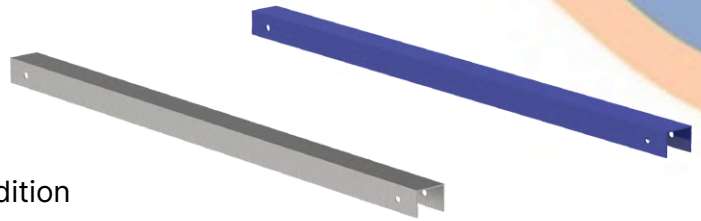
BEAM

- Type: Step / Box Type Beam
- Size: As per span requirement (40×75 mm, 40×100 mm, 40×125 mm)
- Material: Mild Steel
- Thickness: 1.6 mm to 2 mm (as per load & span)
- Connector: Hook-in type
- Load Capacity: Designed as per UDL per level
- Finish: Powder Coated



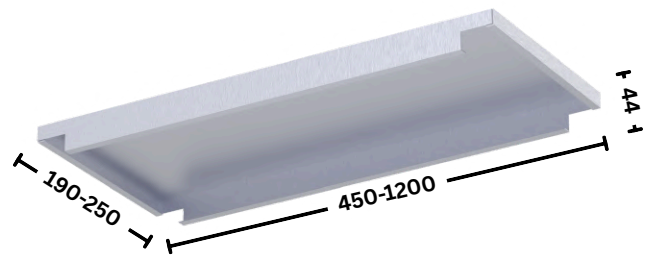
CROSS BRACING & HORIZONTAL BRACING

- Size: 30 × 35 mm
- Material: Mild Steel (HRPO / HR) or GI
- Thickness: 1.6 / 2.0 mm
- Provides structural rigidity and stability
- Design depends on rack height and load condition
- Finish Condition:
GI Bracing: No powder coating required
MS Bracing: Powder Coated



SHELVING

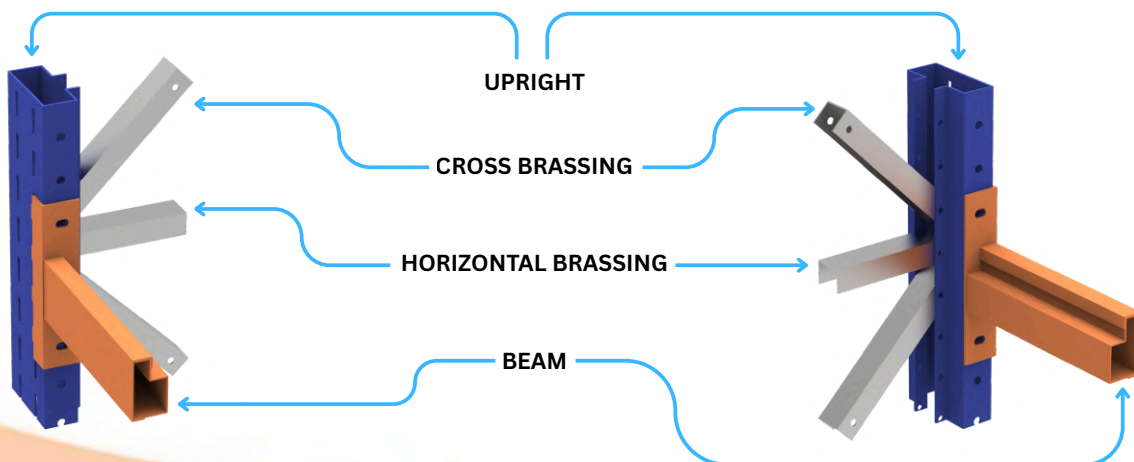
- Material: MS (CRCA / HRPO / HR) or GI
- Thickness Options: 0.8 / 1.0 / 1.2 / 1.6 mm
- Size Options: 44 × 190-250 × 450-1200mm
- Finish Condition:
GI Shelf: No powder coating required
MS Shelf: Powder Coated



Shelf size depends on rack depth, width, and UDL capacity.

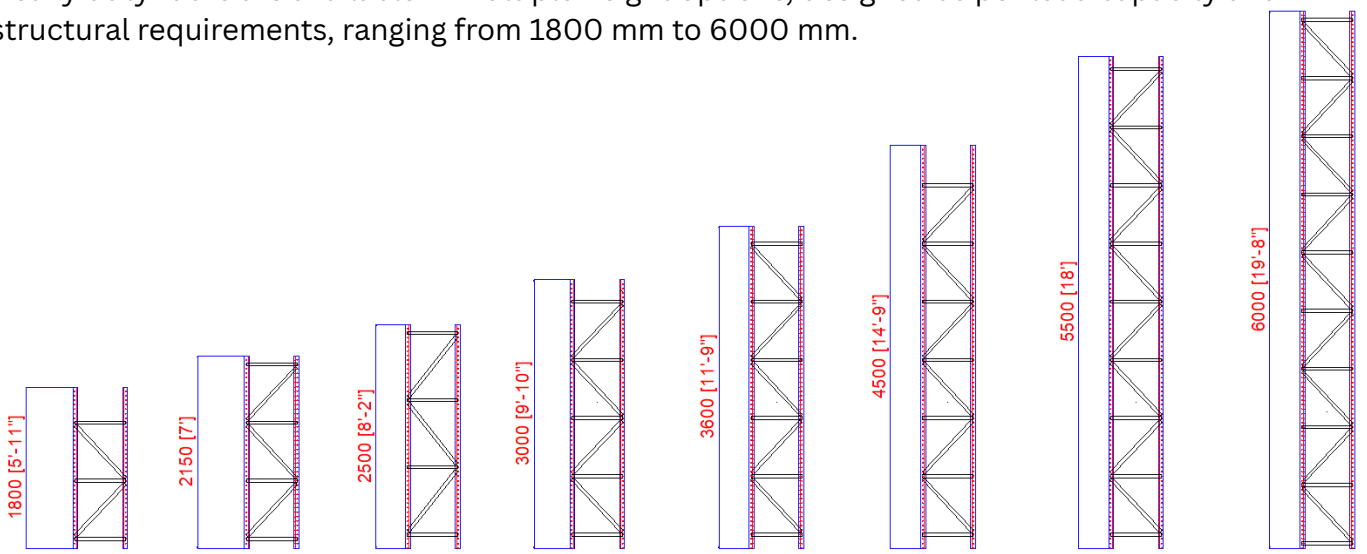
STRUCTURAL CONNECTION & INSTALLATION SYSTEM

Designed for precise alignment and secure interconnection of upright frames, beams, and bracing members, ensuring efficient load transfer and uniform load distribution across the structure. The system allows quick installation with accurate component positioning, maintaining high structural stability, rigidity, and reliable performance under varying load conditions.



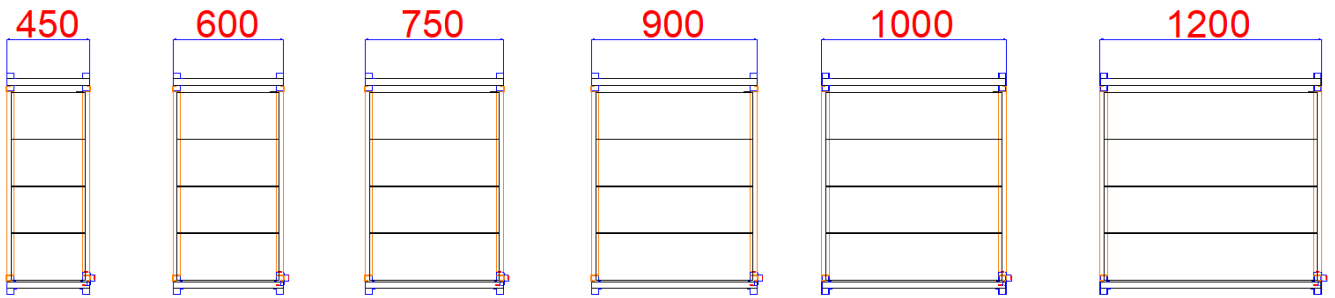
HEAVY DUTY RACK UPRIGHT FRAME HEIGHT

Heavy duty racks are available in multiple height options, designed as per load capacity and structural requirements, ranging from 1800 mm to 6000 mm.



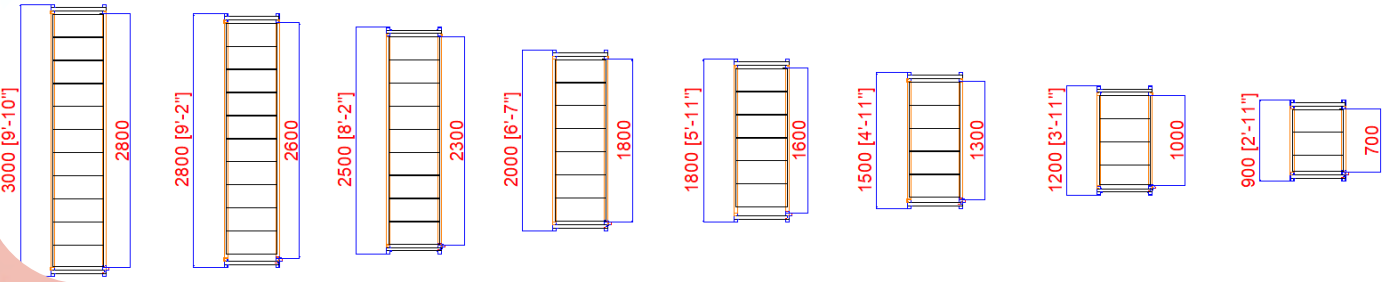
HEAVY DUTY RACK DEPTH

Heavy duty rack depth is determined by the upright frame and cross bracing, and shelf panel size depends on the selected depth and application requirements, ranging from 450 mm to 1200 mm. **For higher depth requirements, double-sided rack configurations are recommended.**

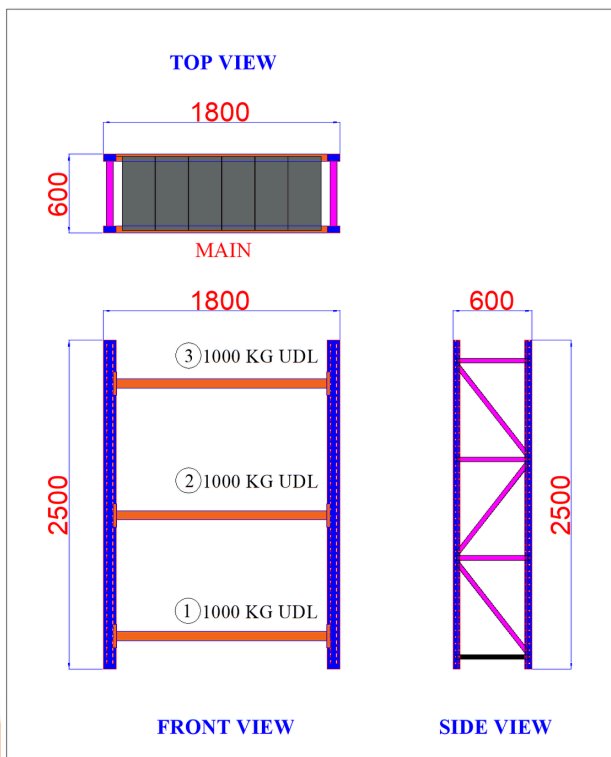
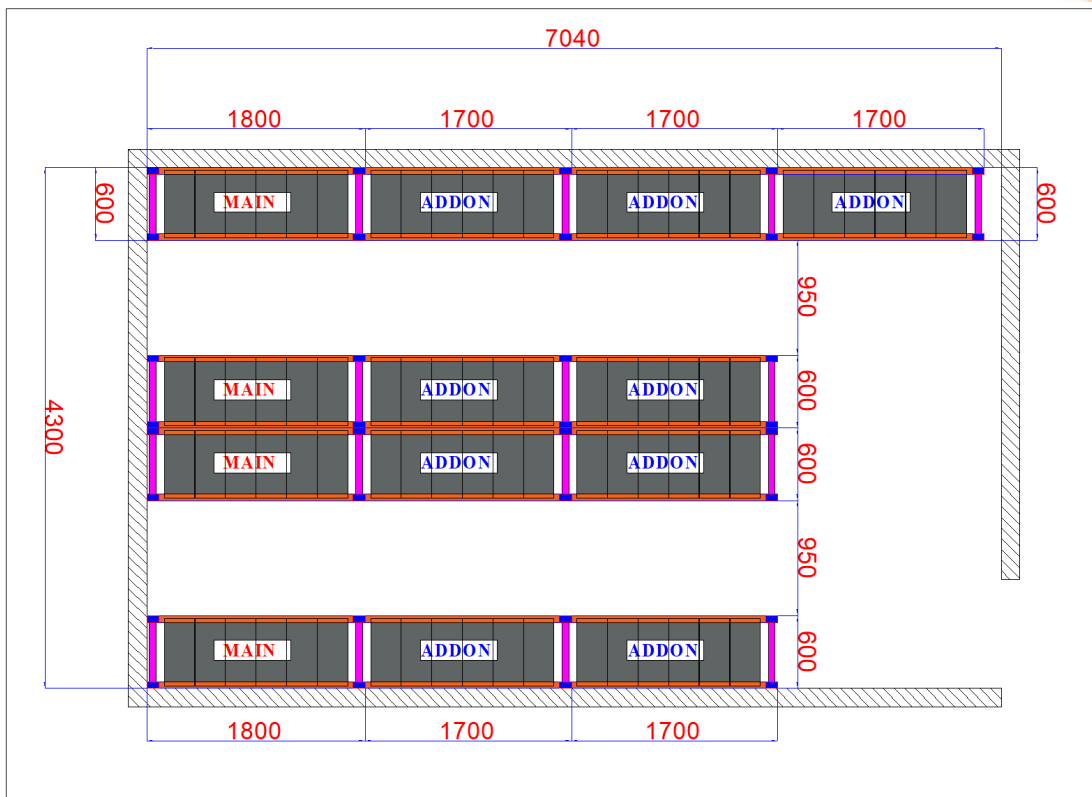


HEAVY DUTY RACK WIDTH

Heavy duty rack width is determined by the beam length and is designed as per load capacity and span requirements, ranging from 900 mm to 3000 mm. Shelf quantity depends on the selected rack width.



WAREHOUSE LAYOUT PLAN – HEAVY DUTY RACKING SYSTEM



An efficient warehouse layout designed for maximum storage capacity, smooth material flow, and organized inventory management with optimized space utilization.

3-TIRE HEAVY DUTY RACK				QTY
	Height	Width	Depth	
MAIN	2500	1800	600	4
ADDON	2500	1700	600	9
TOTAL				13



1-BAY MOBILE COMPACTOR

1-Bay Mobile Compactor is designed for optimized file and document storage in rooms with a minimum **width of 6 feet** and a length ranging from **9 feet to 27 feet**.

2-BAY MOBILE COMPACTOR

2-Bay Mobile Compactor is designed for optimized file and document storage in rooms with a minimum width of **9 feet** and a length ranging from **9 feet to 27 feet**.

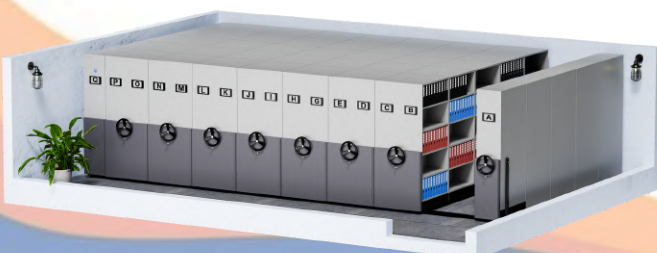


3-BAY MOBILE COMPACTOR

3-Bay Mobile Compactor is designed for optimized file and document storage in rooms with a minimum **width of 12 feet** and a length ranging from **9 feet to 27 feet**.

4-BAY MOBILE COMPACTOR

4-Bay Mobile Compactor is designed for optimized file and document storage in rooms with a minimum **width of 15 feet** and a length ranging from **9 feet to 27 feet**.



5-BAY MOBILE COMPACTOR

5-Bay Mobile Compactor is designed for optimized file and document storage in rooms with a minimum width of **18 feet** and a length ranging from **9 feet to 27 feet**.

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